CN 20617294

Our Ref.:

English translation of pertinent parts in reference D5 cited in the 2nd Office Action

The object of the present utility model is to provide a heat-shrinkable fluoroplastic casing insulating tube having a strong waterproof ability, a better humidity flash performance and surface abrasion resistance.

The present utility model is implemented through the following manners: using a heat-shrinkable fluoroplastic (like Fluorinated Ethylene Propylene) to make a plastic casing tube whose diameter is matched with the external diameter of the insulating tube. After covering the heat-shrinkable fluoroplastic casing tube on the exterior of the insulating tube, the tube is heated to 120-180 degree with a common heating method. At this time, the tube is shrinking (with a shrinking rate about 35%), air between the casing tube and the insulating tube is exhausted when shrinking, and the casting tube is covered on the insulating tube tightly to form a waterproof insulating tube having a strong intensity, thereby improving the surface humidity flash performance and the mechanical intensity, and achieving the goals of high quality and inexpensive cost.

Figure 1 is a sectional view of the present utility model.

Wherein, 1 is representative of insulating tube, and 2 is representative of heat-shrinkable fluoroplastic

The heat-shrinkable fluoroplastic casing tube may also be covered on other insulating element with a section shape for live line work, and hoop the insulating element by heat-shrinking to achieve the above goal.



印实用新型专利申请说明书

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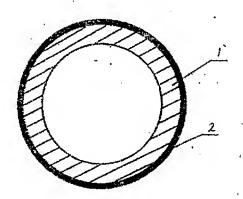
说明书页数

附图页数:

[54]实用新型名称。 带电作业用热缩氣塑料套组合绝缘

[57]摘要

一种带电作业用组合绝缘管,采用热缩纸塑料套 管套于绝缘管上,并加热套管,使其收缩额住绝缘管, 达到提高表面是闪性能,表面耐磨及降低造价的目 的。



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- 1、一种带电作业用组合绝缘管,其特征是采用热缩熏塑料制成套管, 套在绝缘管上并热缩。
- 2、如权利要求1所述的热缩集塑料套管,其特征是也可套在带电作业用其它斯面形 状的绝缘件上。

带电作业用热缩氟塑料套组合绝缘管

本实用新臺涉及高压輸变电线路,设备带电作业用工具。

高压輸变电线路及设备在进行带电检修时,常用的工具为绝缘管。现时世界各国及中国基本作用环氧树脂玻璃纤维绝缘管,其优点是强度高,绝缘性能好。但此类绝缘管存在两个弱点,一是表面视镜强度不高,工作过程中易磁伤表层绝缘,二是表层情水性能不好,在多爾地区易受丽淋而发生电力系统闪络事故,無塑料情水性能很好,表面硬度高,但价格高,如全部采用無塑料制或绝缘管,则成本很高,失去经济价值。

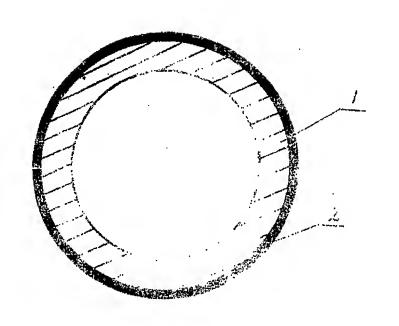
本实用新型的目的是提供一种憎水性强,湿闪性能好,表面耐磨的热缩集塑料套组合绝缘管。

本实用新型的以如下方式实现,采用热缩氟塑料(例如全氟四六乙丙烯)制成塑料套管,管径大小与绝缘管外径配合。将热缩氟塑料套管套在绝缘管外部后,采用日常普通加热方法对套管加热到120-180℃,此时套管收缩(收缩率约35%),收缩时排除套管与绝缘管之间的空气,套管紧紧箍在缘管上,形成一强度高的槽水绝缘层,从而提高绝缘管表层湿闪性能及机械强度,并达到质量好,价格低的目的。

图1为本实用新型剖面图。

其中,1绝缘管,2热缩氩塑料套。

本热缩氣套管也可套在带电作业用其它断面形状的绝缘件上,并加热收缩徵住绝缘件,达到上述目的。



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